

1/9

**FIGURE 1A****CHIR 12.12 light chain:****leader:****MALPAQLLGLLMLWVSGSSG****variable:****DIVMTQSPLSLTVTPGEPAISICRSSQALLYSNGNYLDWYLQKPGQSPQLVLISLGS  
NRAAGVPDFRGSGSGSTDFTLKISRVEAEDVGVYVCMQARQTPFTFGPGTKVDIR****constant:****RTVAAPSVFIFPPPSDEQLKSGTASVVCLLNNPYPREAKVQWKVDNALQSGNSQESVT  
EQDSKDSTYSLSSTILTSLKADYEKHKVYACEVTHQGLSAPVTKSFNRGEC****FIGURE 1B****CHIR-12.12 heavy chain:****leader:****MEFGLSWVFLVAILRGVQC****variable:****QVQLVESGGGVVQPGRSRLSCAASGTFSSYGMHWRQAPGKGLEWVAVI8YEEEN  
RYHADSVXGRFTISRDNSKITLYLQMNSLRTEDTAVYYCARDGGIAAPGPDYWGQQGT  
LVTVSS****constant:****ASTKGPSVYPLAPASKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPALV  
QSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPNTKVDKRVEPKSCDKTHTCPPCPA  
PELLGGPSVFLFPPKPKDLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK  
TKPREHQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE  
PQVYTLPPSRREMTKNQVSLTCLVKGFYPSDIAVEWESNGQPHENYKTTFPVLDSDG  
SFPLYSKLTVDKSRWQOGNVFSCSVNHEALHNHYTQKSLSLSPGK****alternative constant region:****ASTKGPSVYPLAPSXSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPALV  
QSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPNTKVDKRVEPKSCDKTHTCPPCPA  
PELLGGPSVFLFPPKPKDLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK  
TKPREHQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE  
PQVYTLPPSRREMTKNQVSLTCLVKGFYPSDIAVEWESNGQPHENYKTTFPVLDSDG  
SFPLYSKLTVDKSRWQOGNVFSCSVNHEALHNHYTQKSLSLSPGK**

## **FIGURE 2A**

### DNA sequence of light chain of CHIR-12.12:

5' a g g e g c t c c c l g c t a g c t c c l g g g g c l g c l a u l g c l c l g g g c l c t g g a l c c a g l g g g a l a t l g l a l g a c l a g i c l c  
c a c i t c c c t g a c c g t c a c c c l g g a g a g c c g g o o t c a o t c o t g c a g g t c o a g g c c l c l c l a l a g t a a l g g a t a  
c a a c t a l t g g a l l g g l u c c l g c a g a a g c c a g g g e a g t c t c c a c a g g t c t g a l c l c l l g g g l c l a a c t c g g g c c t c c g g g g  
t c c c l g a c a g g t c a g l g g c a g t g g a t c a g g c a c a g a t t u a c u l g a a n a l c a g c a g a t t g g a g g c t g a g g a t t t t g g g g  
l l a l a c l g c a l g c a a g o t o g a c a a a c t c c a l t c a c t l c y g c c c l g g g a c c n a a n g t g g a t a t c a g a c g a a c l g l g g o l g o u  
c c a c l c l g i o l i c a l t t c c e g c c a t o t g a t g a g c a g l l g u a a l t c g g a a c t g c c t c t g t g r g t g c c t c g t g a a l a a c l c l a l c c  
c a g a g a g g c c a a g t a c a g t g g a a g g i g g u a c g c c c t c a a t c g g g t a a c t c c c a g g a a g g l g l c u c a g a g c a g g a  
c a g c a a g g a c a g c c l a o a g c c l o a g c a g c a o c c l g a c g t g a g g a a g c a g a c t a o g g a g a a c a c a w a g l c l a c g e  
c l g o g a a g l c a c c c a t c a g g g o t g a g c t c y c c c l g c a c a a a g a g c t c a a c a g g g g a g g a t g t r a g 3'

**FIGURE 2B**

#### DNA sequence of heavy chain of CHIR-12.12 (including introns):

3/9

**FIGURE 3A****CHIR-5.9 light chain:****leader:****MALLAQLLGLLNLWVPGSSG****variable:****AIVMTQPPPLSSPVTLGGPASISCRSSQSLVHSDGNTYLNWLQQRPGQPPRLLIYKFF  
RRLSGVPDRFSGSGAGTDFTLKISRVEAEDVGVYYCMQVTQFPHTFGQQGTRLEIK****constant:****RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVT  
EQDSKDSTYSL9STTLSKADYEKHKVYACEVTHQQLSSPVTKSFNRGEC****FIGURE 3B****CHIR-5.9 heavy chain:****leader:****MGSTAILALLLAVLQGVCA****variable:****EVQLVQSGAEVKKPGESLKISCKGSGYSFTSYWIGWVRQMPGKGLEWMGIIYPGDSD  
TRYSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYCARGTAAQRDYYYYYGMDV  
WGQGTTTVTVSS****constant:****ASTKGPSVFPLAPASKSTSGGTAALGCLVKDYFPEPVTVWSWNSGALTSGVHTFP  
AVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHPNTKVDKRVEPKSCDKTHTCP  
PCPAPELLGGPSVFLFPPKPKDTLMIARTPEVTCVVDVSHEDPEV  
KFVNWYVDGVEVN  
AKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALP  
APIEKTISAKGQPRE  
PQVYTLPPSRHEMTKQVSLTCLVKGFYPSDI  
AVEWE  
SNGQPENNYKTT  
PPVLDSDG  
SFFLYSKLTVDKSRWQQGNVFCSVMHEALHNHYTQKSLSLSPGK****alternative constant region:****ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVWSWNSGALTSGVHTFP  
AVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHPNTKVDKRVEPKSCDKTHTCP  
PCPAPELLGGPSVFLFPPKPKDTLMIARTPEVTCVVDVSHEDPEV  
KFVNWYVDGVEVN  
AKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALP  
APIEKTISAKGQPRE  
PQVYTLPPSRHEMTKQVSLTCLVKGFYPSDI  
AVEWE  
SNGQPENNYKTT  
PPVLDSDG  
SFFLYSKLTVDKSRWQQGNVFCSVMHEALHNHYTQKSLSLSPGK**

4/8

**FIGURE 4A**

## Coding sequence for short isoform of human CD40:

**FIGURE 4B**

### Encoded short isoform of human CD40:

1 mvrplqcvl wgcilivahp eppiacrokq ylinsqccsl cqpgqkvlvsd cteftetecl  
61 pegesealdt wrrothchqh kycdpnlglr vqqkgtseid ticiceewgh ciseacescv  
121 lhrscspgfg vkqiatgvsd ticepcvpgf fsnvssafek chpwirspga acspggdphh  
181 lrdpvchphlg aglyakyygqe anq

**FIGURE 4C**

Coding sequence for long isoform of human CD40:

```

1 alggcgcgtc tgccctcgca glgcgcccccc tggggcgcgt tgctgaccgc tgcacatcca
61 gaaccaccaa ctgoatgcgg agaaaaaacag tacataataa acaatcgttg ctgttctttg
121 tgcacaggaa gacagaaact ggtggatgtac tgcacagagt tcaatggaaa ggaatggcii
181 ccttgcggtg aaatggaaat ccttagacacc tggatcggat uggatcacatcc ccaccaggcac
241 uuuuauolgcg acooccaaccc ugggottogg gtccagcaga agggccacoto agaaacagao
301 accatctgca cctgtgaaaga aggttgttgcac tgcacggatgg aggccatgtga gagctgtgc
361 ctgcaccgcgt caigctgtcc cggccttgggg gtcacggaga tgcacatagg ggttttctgtat
421 acoatotgog agccctgtcc alegggotcc ttccttcaatgg tgcacatcgat ttccggaaaa
481 tgcacccctt ggacaagctg tggatccaaa gaccatggatgg tgcacaggcc aggcacaaac
541 aagacatgtat tgcacatgg tcccttggatgg cggctgagatgg cccatgtgtt gatccccatc
601 aatcttggat tcccttggatgg cccatgtgtt gatccatggatgg ttccttggatgg
661 uugccaaatca ataaaggcccccc cccatggatgg cccatggatgg ttccttggatgg
721 gatcttccatgg tgcacacatgg tgcacatggatgg ttccttggatgg atgcacatgg
781 gtcacccagg aggtatggatgg aagatggatgg aatcttggatgg ttccttggatgg

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**FIGURE 4D**

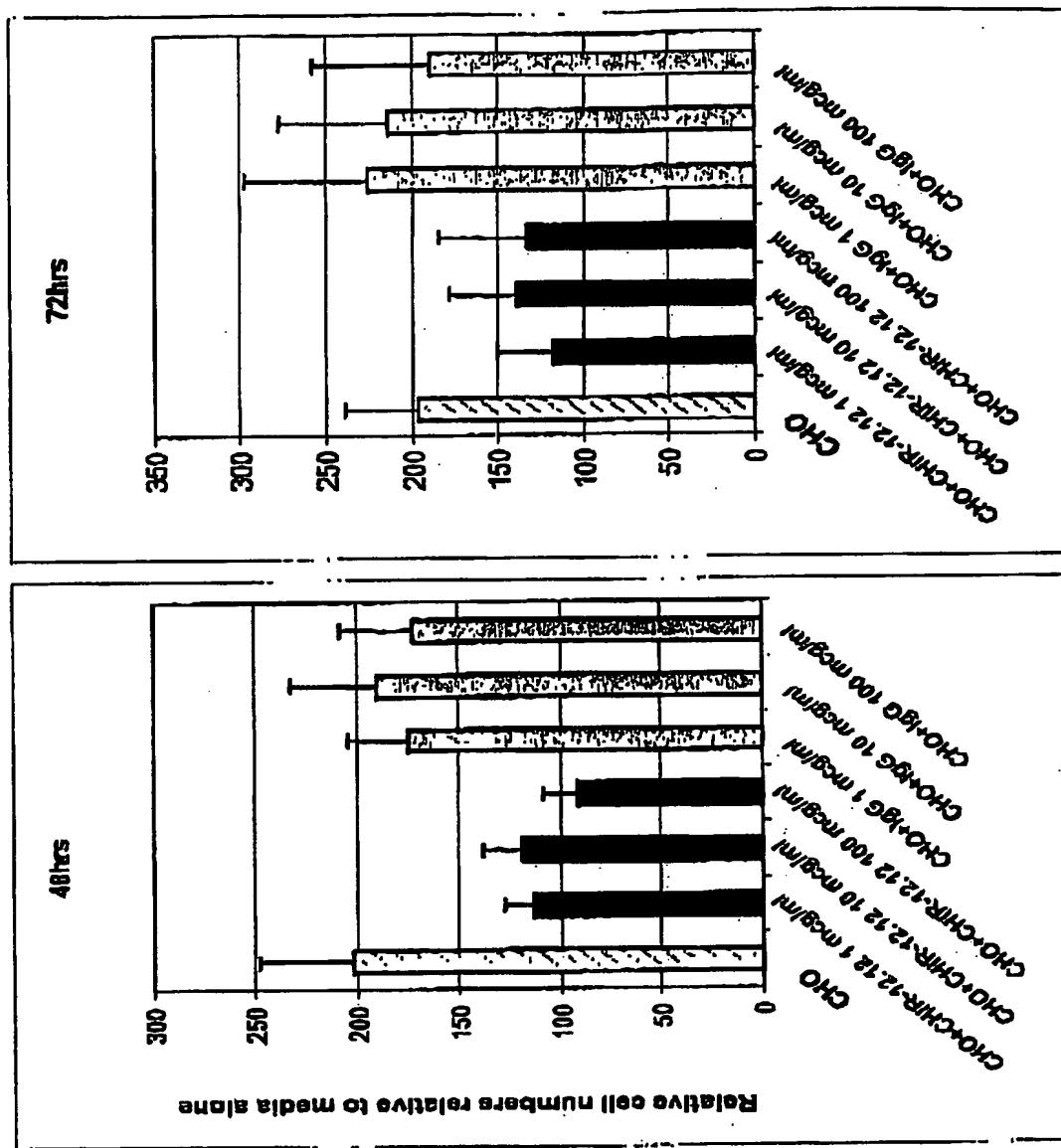
Encoded long isoform of human CD40:

```

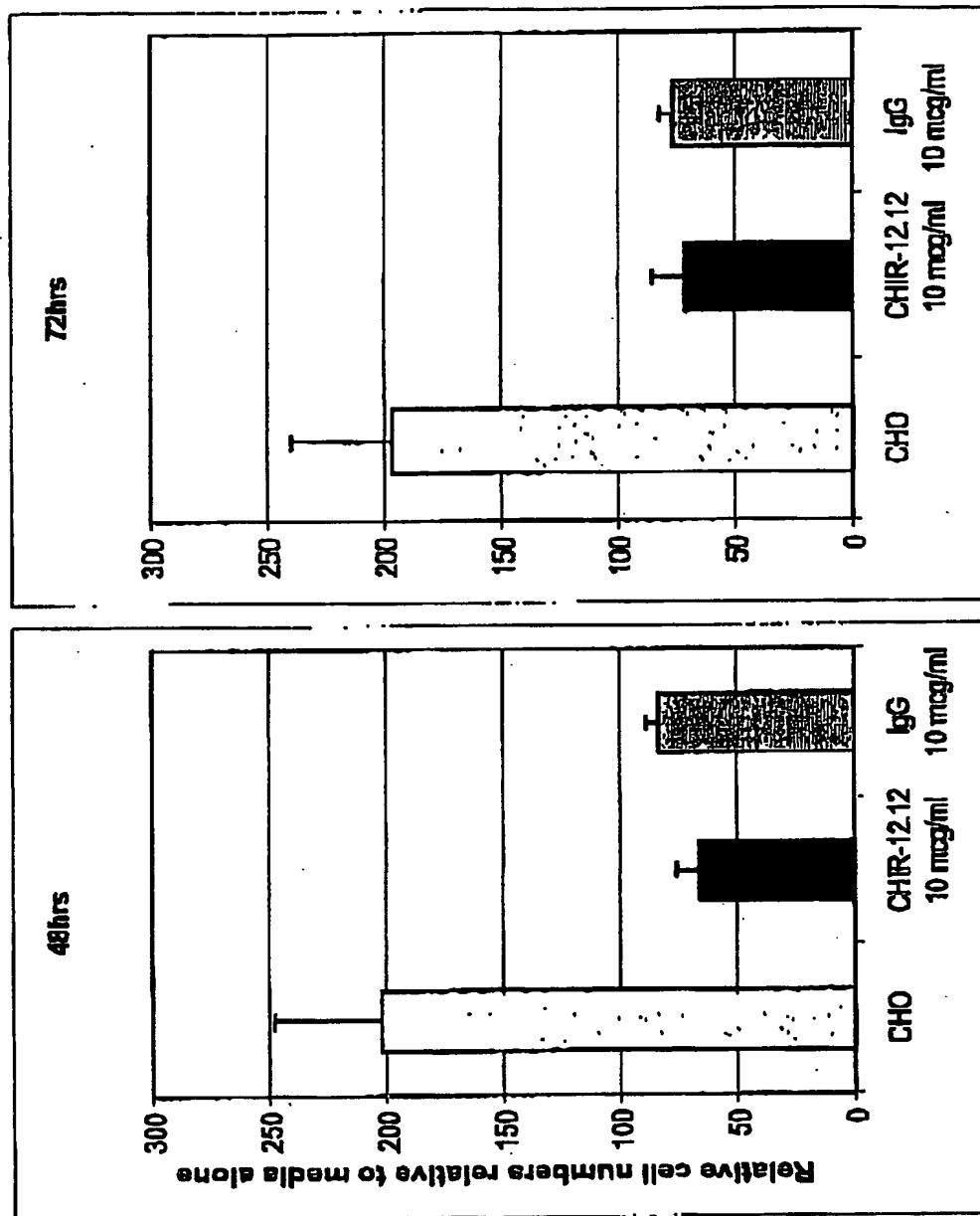
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61 pcgesefldt wnrethchqh kycdpnlglr vqqkgtseid ttccttggatgg ttccttggatgg
121 hrscspgfg vkqiatgvsd tcccttggatgg ftnvssafek chpwtscatk dlvvqqagtn
181 ktdvvvegpqd rrlalvvipi ifgiltsuill vlvfikkvak kptnkaphpk qspqeinfpd
241 dlpgsntaap vqetlhgcqp vlgqedgkesr isvqerq

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6/9

**FIGURE 5B****FIGURE 5A****REST AVAILABLE COPY**

7/9

FIGURE 6A  
FIGURE 6B

8/9

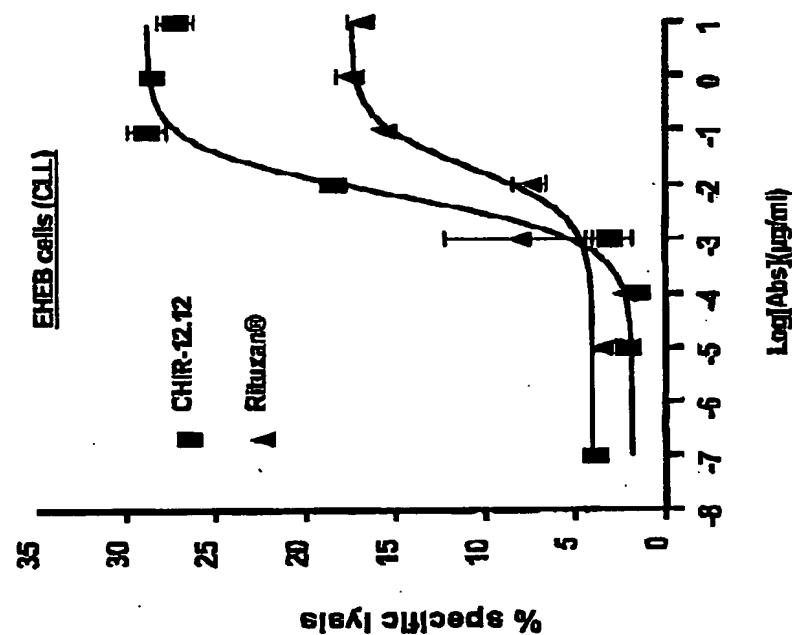
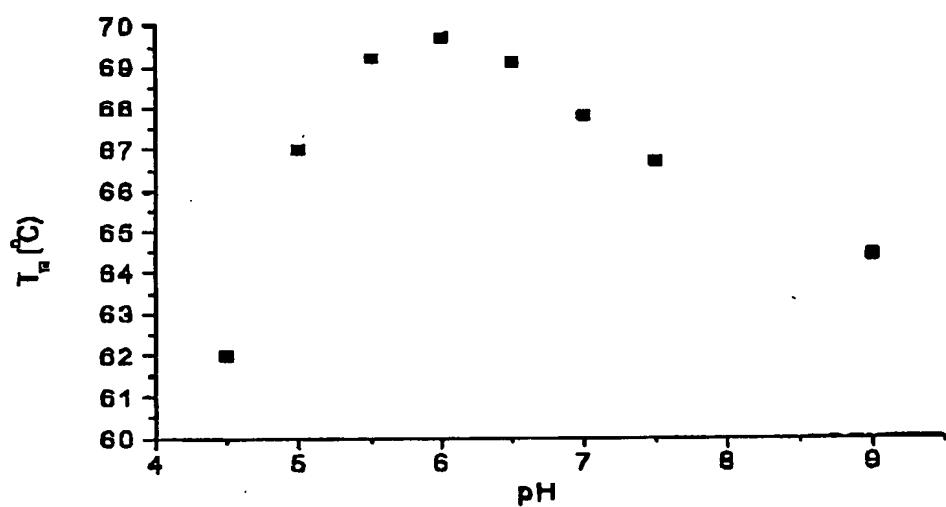


FIGURE 7

9/9

**FIGURE 8****BEST AVAILABLE COPY**